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Datasheet for 600-306-215

GFP Antibody Biotin Conjugated

Overview

Description:	Anti-GFP (MOUSE) Monoclonal Antibody Biotin Conjugated - 600-306-215
Item No.:	600-306-215
Size:	1 mg
Applications:	ELISA, IHC, WB, Purification
Reactivity:	GFP, eGFP, rGFP
Host Species:	Mouse

Product Details

Background:	Green fluorescent protein is a 27 kDa protein produced from the jellyfish Aequorea victoria, which emits green light (emission peak at a wavelength of 509nm) when excited by blue light. GFP is an important tool in cell biology research. GFP is widely used enabling researchers to visualize and localize GFP-tagged proteins within living cells without the need for chemical staining.
Synonyms:	mouse anti-GFP antibody biotin conjugation, biotin conjugated mouse anti-GFP antibody, Green Fluorescent Protein, GFP antibody, Green Fluorescent Protein antibody, EGFP, enhanced Green Fluorescent Protein, Aequorea victoria, Jellyfish
Host Species:	Mouse
Conjugate:	Biotin
Clonality:	Monoclonal
Clone ID:	9F9.F9
Format:	IgG

Target Details

Reactivity:	GFP, eGFP, rGFP
Immunogen Type:	Recombinant Protein

Immunogen:	Anti-Green Fluorescent Protein (GFP) is produced by immunizing GFP containing fusion protein that corresponds to the full length amino acid sequence (246aa) derived from the jellyfish Aequorea victoria.
Purity/Specificity:	GFP Biotin Conjugated Antibody was prepared from tissue culture supernatant by Protein A affinity chromatography. Assay by Immunoelectrophoresis resulted in a single precipitin arc against anti-biotin and anti-Mouse Serum. Reactivity is observed against recombinant Green Fluorescent Protein (000-001-215, recombinant GFP from Aequorea victoria) by both Western blot and ELISA. No reaction is seen against RFP.
Relevant Links:	• UniProtKB - P42212

Application Details

Tested Applications:	ELISA, IHC, WB
Suggested Applications:	Purification (Based on references)
Application Note:	Monoclonal anti-GFP is designed to detect enhanced GFP and GFP containing recombinant proteins. Tested in E, WB, IHC. This antibody can be used to detect GFP by ELISA (sandwich or capture) for the direct binding of antigen. Biotin conjugated monoclonal anti-GFP is well suited to titrate GFP in a sandwich ELISA in combination with Rockland's polyclonal anti-GFP (600-101-215) as the capture antibody. Only use the monoclonal form for the detection of enhanced or recombinant GFP. Polyclonal anti-GFP detects all variants of GFP tested to date. The biotin conjugated detection antibody is typically used with streptavidin conjugated HRP (code # S000-03) or other streptavidin conjugates. The use of polyclonal anti-GFP results in significant amplification of signal when fluorochrome conjugated polyclonal anti-GFP is used relative to the fluorescence of GFP alone. For immunoblotting use either alkaline phosphatase or peroxidase conjugated anti-GFP to detect GFP or GFP containing proteins on western blots. Optimal titers for applications should be determined by the researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000 - 1:200,000
IHC:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000

Formulation

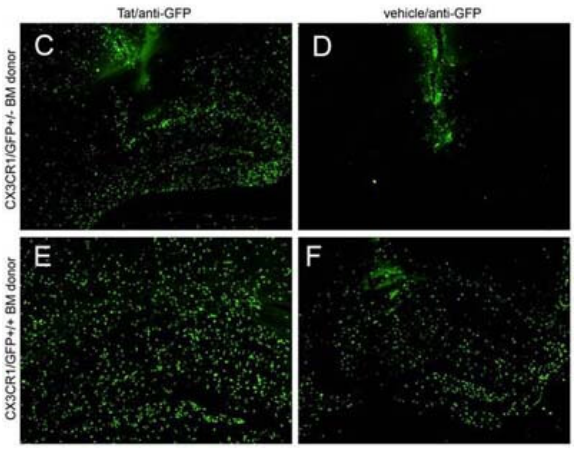
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide

Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
IHC - Immuno-Fluorescence of Biotin Mouse anti-GFP antibody. Biotin mouse anti GFP used 1:5000 As referenced in: Lu S-M, Tremblay M-E` , King IL, Qi J, Reynolds HM, et al. (2011) HIV-1 Tat-Induced Microgliosis and Synaptic Damage via Interactions between Peripheral and Central Myeloid Cells. PLoS ONE 6(9): e23915. doi:10.1371/journal.pone.0023915



Western Blot
Western Blot of Anti-GFP (MOUSE) Monoclonal Antibody Biotin Conjugated antibody. Lane 1: 50ng of GFP. Lane 2: none. Primary antibody: none. Secondary antibody: Anti-GFP (MOUSE) Monoclonal Antibody Biotin Conjugated (p/n 600-306-215) secondary antibody was used at 1:5000 in Blocking Buffer for Fluorescent Western Blotting (p/n MB-070) for 45 min at RT. HRP Streptavidin (p/n S000-03) was used at 1:40,000 in MB-070 for 30 min at 20°C. Block: 5% Blotto (p/n B501-0500) 30 min at 20°C. Predicted/Observed size: 28 kDa for GFP. Other band(s): none.

References

- Gonneville AN et al. Rapid and improved surface passivation method for Single-Molecule experiments. *Methods.* (2026)
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- Jain, A et al. Probing cellular protein complexes using single-molecule pull-down. *Nature* (2011)
- Graf ER et al. Neurexins induce differentiation of GABA and glutamate postsynaptic specializations via neuroligins. *Cell.* (2004)
- C Wang et al. Recombinant AAV serotype 1 transduction efficiency and tropism in the murine brain. *Gene Ther.* (2003)

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